UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/814,935	03/30/2004	Inyup Kang	030310	030310 7935	
23696	7590 05/09/2006		EXAMINER		
QUALCOMM, INC 5775 MOREHOUSE DR.			NGUYEN, MATTHEW VAN		
SAN DIEGO,	· · · · · · ·		ART UNIT	PAPER NUMBER	
ŕ			2838		
			DATE MAILED: 05/09/2000	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	i. jul Ma u till
	10/814,935	KANG ET AL.	ia min Jamini
Office Action Summary	Examiner	Art Unit	- 11
	MATTHEW V. NGUYEN	2838	i =
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address	11
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period v  - Failure to reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  36(a). In no event, however, may a reply be to the vill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	N). imely filed in the mailing date of this communication ED (35 U.S.C. § 133).	. To
Status			
1) Responsive to communication(s) filed on 30 M	arch 2004		
	action is non-final.		6-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
3) Since this application is in condition for allowar		rosecution as to the merits i	S
closed in accordance with the practice under E	,		1 i
·	· · · · · · · · · · · · · · · · · · ·		1
Disposition of Claims			0
4) Claim(s) <u>1-50</u> is/are pending in the application.			<b>अ</b> वस्था
4a) Of the above claim(s) is/are withdray	wn from consideration.		***************************************
5) Claim(s) is/are allowed.			<b>A</b>
6) Claim(s) is/are rejected.		<b>F</b>	= ' •
7) Claim(s) is/are objected to.	election requirement	á	5
8) Claim(s) <u>1-50</u> are subject to restriction and/or 6	siection requirement.		- 7
Application Papers			
9) The specification is objected to by the Examine	r.	Ö	
10) The drawing(s) filed on is/are: a) acce		Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct			
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Offic	e Action or form PTO-152.	र 19वर वेटि स्वय
Priority under 35 U.S.C. § 119			· • • • • • • • • • • • • • • • • • • •
		-> (-1) (6)	
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(	a)-(d) or (†).	
a) All b) Some * c) None of:	a hava haar ressined		
1. Certified copies of the priority documents		tion No	.व :च्या क्रम्मा
2. Copies of the pertified copies of the prior			pa ertiñ Le vi (sin)
3. Copies of the certified copies of the prior	·	veu iii tiiis ivational Stage	
application from the International Bureau * See the attached detailed Office action for a list		ved	i i
See the attached detailed Office action for a list	or the certified copies not recent	eu.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summai		••
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail I		•
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5)  Notice of Informal 6)  Other:	ratent Application (PTO-152)	**************************************
S. Patent and Trademark Office			
TOL-326 (Rev. 7-05) Office Ad	ction Summary F	Part of Paper No./Mail Date 200609	504
			1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

1141.....

Specification of the specifica

Page 2

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-20, drawn to a particular method of regulating a supply voltage ١. including step of calculating a reference voltage, classified in class 363, subclass 147.
  - Claims 21-27 and 48, drawn to a particular method of regulating a supply 11. voltage including a step of determining a process split, classified in class 323, subclass 285.
  - Claims 28-34, 49 and 50, drawn to a particular structure of a voltage III. regulation apparatus including a memory circuit for storing data, classified in class 323, subclass 283.
  - IV. Claims 35-41, drawn to a particular method of regulating a supply voltage using a ring oscillator circuit, classified in class 323, subclass 266.
  - ٧. Claims 42-47, drawn to a particular structure of a particular structure of a voltage regulation apparatus including a critical path replica circuit, classified in class 323, subclass 315.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II-V are related as combination and subcombination. Inventions 2. in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the method of regulating a supply

Application/Control Number: 10/814,935

Art Unit: 2838

voltage as recited in Group I, claims 1-20, does not necessary to contain particular steps or elements as recited in Groups II-V. The subcombination has separate utility such as each of voltage regulation apparatuses and methods therefor as recited in Groups II-V can be used without the step of calculating a reference voltage at which the IC device is insensitive to temperature variations as recited in claims 1-20 of Group I.

3. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Applicants are suggested to elect one Group at a time.

4. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Matthew V. Nguyen whose telephone number is (571) 272-2081.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2800.

MATTHEW V. NGUYEN
PRIMARY EXAMINER